

# PATENT ABSTRACTS OF JAPAN

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## (54) DEVICE FOR TRANSPORTING MATERIAL IN HEAT TREATMENT FURNACE

### (57)Abstract:

PROBLEM TO BE SOLVED: To provide a material transporting device so as not to rotate the material in a heat treatment furnace.

SOLUTION: In an introducing part and a heating part in the heat treatment furnace used for the heat treatment furnace for executing the heat treatment while the round pipe or bar material is transported in the axial direction, plural flat rolls 1 composed of columnar body and arranged by rotating with the motive power under condition of orthogonal direction to the transporting direction and mutually parallel shaft axes in the horizontal plane, are disposed. In a cooling part and an ejecting part in the furnace, plural V-grooved rolls 2 having the V-groove on the outer periphery of the columnar surface and arranged by rotating with the motive power under condition of the same horizontal plane as the above horizontal plane for flat rolls 1 in the heating zone and mutually parallel shaft axes by inclining by a few angle to the flat roll axes, are disposed.



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